

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Steven P. Simner et al.

Application No.: 10/714,180

Filed: November 14, 2003

Confirmation No.: 9390

For: COPPER-SUBSTITUTED PEROVSKITE  
COMPOSITIONS FOR SOLID OXIDE FUEL  
CELL CATHODES AND OXYGEN  
REDUCTION ELECTRODES IN OTHER  
ELECTROCHEMICAL DEVICES

Examiner: Ben Lewis

Art Unit: 1746

Attorney Reference No.: 23-70727-02

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to  
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Attorney or Agent  
for Applicant(s)

Date Mailed November 16, 2006

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TRANSMITTAL LETTER

Enclosed for filing in the application referenced above are the following:

- ☒ Supplemental Information Disclosure Statement
- ☒ PTO-1449 Form (2 pages), and copies of references listed thereon
- ☒ Check in the amount of \$180.00 for payment of the IDS fee
- ☒ The Director is hereby authorized to charge any fees that may be required, or credit over-  
payment, to Deposit Account No. 02-4550. A copy of this sheet is enclosed.
- ☒ Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By

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cc: Docketing

TRANSMITTAL - Page 1 of 1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re application of:** Peter C. Rieke et al.

**Application No.:** 10/714,180

**Filed:** November 14, 2003

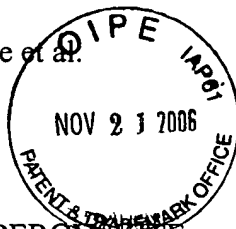
**Confirmation No.:** 9390

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Attorney or Agent  
for Applicant(s)

A handwritten signature in black ink, appearing to read "Morgan J. Riecke".

Date Mailed November 16, 2006

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 C.F.R. § 1.97(c)**

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language and/or non-English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent. This Information Disclosure Statement ("IDS") is being mailed before Applicants received a final action, a notice of allowance, or an action that otherwise closes prosecution in the referenced application.

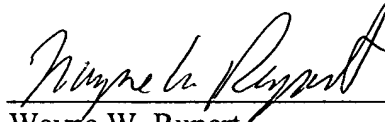
Submitted herewith is a check for \$180.00 as required by 37 C.F.R. § 1.17(p) for filing this IDS in compliance with 1.97(c). Please charge any additional fees which may be required in connection with filing this IDS, or credit any overpayment, to Deposit Account No. 02-4550. A duplicate copy of this sheet is enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

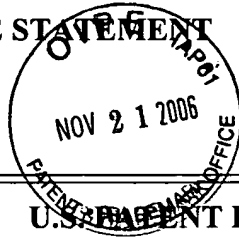
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**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**


Attorney Docket Number	23-70727-02
Application Number	10/714,180
Filing Date	November 14, 2003
First Named Inventor	Peter C. Rieke
Art Unit	1746
Examiner Name	Ben Lewis

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		4,045,375	30 Aug 1977	Komatu
		US 2001/0053467 A1	20 Dec 2001	Kaneko et al.
		US 2004/0089540 A1	13 May 2004	Van Heuveln et al.

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
		Europe	0 593 281 A2	20 Apr 1994	NGK Insulators, Ltd.
		Europe	0 641 749 A1	02 Sept 1994	NGK Insulators, Ltd.
		WIPO/PCT	WO 03/041196 A1	15 May 2003	Northwestern University and Functional Coating Technology, LLC

**OTHER DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	
		Carter et al., "Improved Materials and Cell Design for Mechanically Robust Solid Oxide Fuel Cells," <i>2002 Fuel Cell Seminar</i> , pp. 874-877, Palm Springs, CA, November 18-21, 2002 (Abstract)
		Chick et al., "Glycine-nitrate combustion synthesis of oxide ceramic powders," <i>Materials Letters</i> 10(12):6-12, 1990
		Coffey et al., "Copper doped lanthanum strontium ferrite for reduced temperature solid oxide fuel cells," <i>Solid State Ionics</i> 175:73-78, 2004
		Figueiredo et al., "Reactions between a zirconia-based electrolyte and LaCoO <sub>3</sub> -based electrode materials," <i>Solid State Ionics</i> 101(103):343-349, 1997

**EXAMINER  
SIGNATURE:**
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\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE STATEMENT  
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Examiner Name	Ben Lewis

**OTHER DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	
		Kindermann et al., "Chemical Interactions between La-Sr-Mn-Fe-O-Based Perovskites and Ytria-Stabilized Zirconia," <i>J. Am. Ceram. Soc.</i> 80(4):909-914, 1997
		Kleinlogel et al., "Temperature Solid Oxide Fuel Cells," <i>Electrochemical Society Proceedings</i> 99-19:225-232, 1999
		Ralph et al., "Evaluation of Potential Cathode Materials for SOFC Operation Between 500-800°C," <i>Electrochemical Society Proceedings</i> 2001-16:466-475, 2001
		Simner et al., "Sintering and Property Characterization of Strontium-Doped Lanthanum Chromite," <i>Electrochemical Society Proceedings</i> 99-19:696-705, 1999
		Simner et al., "Development of Fabrication Techniques and Electrodes for Solid Oxide Fuel Cells," <i>Electrochemical Society Proceedings</i> 2001-16:1051-1060, 2001
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		Simner et al., "Development of Cathode Materials for Low Temperature SOFCs," <i>2002 Fuel Cell Seminar</i> , pp. 344-347, Palm Springs, CA, November 18-21, 2002 (Abstract)
		Simner et al., "Interaction between La(Sr)FeO <sub>3</sub> SOFC cathode and YSZ electrolyte," <i>Solid State Ionics</i> 161:11-18, 2003
		Simner et al., "Enhanced low temperature sintering of (Sr, Cu)-doped lanthanum ferrite SOFC cathodes," <i>Solid State Ionics</i> 175:79-81, 2004
		Simner et al., "La(Sr)FeO <sub>3</sub> SOFC Cathodes with Marginal Copper Doping," <i>J. Am. Chem. Soc.</i> 87(8):1471-1476, 2004
		Steele et al., "Interfacial reactions associated with ceramic ion transport membranes," <i>Solid State Ionics</i> 75:157-165, 1995
		Takeda et al., "Cathodic Polarization Phenomena of Perovskite Oxide Electrodes with Stabilized Zirconia," <i>J. Electrochem. Soc.: Electrochemical Science and Technology</i> 134(11):2656-2661, 1987
		Tsoga et al., "Gadolinia-Doped Ceria and Ytria Stabilized Zirconia Interfaces: Regarding their Application for SOFC Technology," <i>Acta. Mater.</i> 484709-4714, 2000

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